200 AMP GTAW WELDING POWER SUPPLY

ORDERING SPECIFICATIONS

DOCUMENT # 5133-3340

1. MUST BE MULTI PROCESS CAPABLE ABLE TO BE USED IN THE GAS TUNGSTEN ARC, PULSED GAS TUNGSTEN ARC, SHIELD METAL ARC, AND AIR CARBON ARC WELDING/CUTTING PROCESSES
2. MUST BE ABLE TO USE AT LEAST UP TO 5/32" DIAMETER CARBON ARC ROD FOR THE AIR CARBON ARC PROCESS
3. MUST WEIGH 37 POUNDS OR LESS
4. MUST BE APPROXIMATLY 13.5" HIGH X 7.5" WIDE X 17.5"LONG
5. MUST HAVE AUTO SELECT INPUT VOLTAGE HOOKUP FEATURE TO ENABLE POWER SUPPLY TO BE HOOKED UP TO ANY INPUT POWER SOURCE (120-480 V) TO BE USED WITH UNRELIABLE OR "DIRTY" POWER
6. MUST HAVE FAN ON DEMAND POWER SOURCE COOLING SYSTEM THAT OPERATES ONLY WHEN NEEDED FOR COOLING TO REDUCE NOISE, REDUCE POWER USAGE, AND AMOUNT OF CONTAMINATING PARTICULATES DRAWN INTO THE MACHINE BY COOLING FAN
7. MUST HAVE LIFT-ARC FEATURE THAT ALLOWS FOR DC ARC INITIATION WITH OUT THE USE OF HIGH FREQUENCY AT THE SAME TIME REDUCING RISK OF TUNGSTEN CONTAMINATION BY GRADUAL AMPERAGE RAMP UP
8. MUST ALSO HAVE HIGH FREQUENCY ARC STARTER FOR NON CONTACT ARC INITIATION
9. MUST HAVE "DIG" CONTROL FEATURE FOR SMAW WELDING PROCESS WITH 0 TO 100% ADJUSTMENT
10. MUST HAVE HOT START ADAPTIVE CONTROL TO PROVIDE SMOOTH NON-STICKING ARC STARTS
11. MUST ALSO BE ABLE TO BE USED WITH WIRELESS FOOT CONTROL
12. MUST BE ABLE TO BE USED WITH EITHER SINGLE OR THREE PHASE POWER
13. WHEN THREE PHASE MUST HAVE AMPERAGE RANGE OF 1-200 A. WITH RATED OUTPUT OF AT LEAST 175A AT 17 V WITH 60% DUTY CYCLE FOR GTAW WELDING

14. WHEN THREE PHASE MUST HAVE AMPERAGE RANGE OF 1-200 A WITH RATED OUTPUT OF 150 A AT 26 V WITH 60% DUTY CYCLE FOR SMAW WELDING
15. MUST HAVE VOLT/AMP DISPLAYS ON CONTROL PANNEL
16. MUST HAVE OUTPUT CONTROL FOR STANDARD REMOTE, 2T TRIGGER HOLD, AND OUTPUT ON
17. MUST HAVE CONTROL TO ADJUST SHIELDING GAS POSTFLOW ADJUST RANGE .0 TO 50 SECONDS
18. MUST HAVE SEQUENCER CONTROL FOR ADJUSTING INITIAL AMPERAGE 1-200A, INITIAL SLOPE .0-25 SECONDS, FINAL SLOPE .0-25 SECONDS, FINAL AMPERAGE 1-200A
19. MUST HAVE PULSER CONTROL FOR ADJUSTING PULSES PER SECOND .1-500 PPS, PEAK TIME 5-95%, AND BACKGROUND AMPERAGE OF 5-95%
20. MUST ALSO BE CAPABLE OF ADDITIONAL SETUP PARAMETER VALUES OF:
    PREPROGRAMED STARTS .020-1/8" TUNGSTEN
    PROGRAMABLE STARTS AMPERAGE 5-200 A, TIME 1-200 MILLIESECONDS, RAMP TIME 0-150 MILLISECONDS, AND MINIMUM AMPERAGE 1-20 A
    ADDITIONAL TRIGGER OPTIONS, 3T, 4T, MINI LOGIC, 4T MOMENTARY
    SPOT/TIMER .1-25 SECONDS
    OVC LOW OVC AND NORMAL OVC
    STICK-STUCK CHECK ON/OFF
    LOCK OUTS FOUR LEVELS
    ARC TIMER .O-9999 HOURS AND 0-59 MINUTES
    CYCLE COUNTER 0-999,999 CYCLES
21. HIGH SPEED DC PULSED TIG CONTROLS MUST BE CAPABLE OF .1-500 PPS DC, % ON-% PEAK TIME 5-95%, AND BACKGROUND AMPS 5-99% OF PEAK AMPS
22. POWER SUPPLY MUST BE ACCOMPANIED BY AN ADJUSTABEL SHOULDER STRAP POWER SUPPLY SET UP INSTRUCTIONAL DVD, AIRCOOLED TIG TORCH CONNECTOR, TWO 50-MM DINSE-STYLE CONNECTORS, AND 8' POWER CORD
23. MUST HAVE CERTIFICATION FROM OSHA APPROVED NATIONALLY RECOGNIZED TESTING LABORATORY SUCH AS CSA, TUVSUD, UL ETC.
24. MUST HAVE LOW OPEN CIRCUIT VOLTAGE FEATURE
25. MUST HAVE 3T TRIGGER METHOD FOR REMOTE AMPERAGE CONTROL
26. MUST INTERFACE WITH CURRENT INVENTORY OF S/26 3T TRIGGER AND HAND HELD REMOTE CONTROL SWITCHES (APPROXIMATE VALUE $214K) AND FOOT PEDDLE REMOTE CONTROL SWITCHS (APPROXIAMTE VALUE $ 5K)
27. ANY EQUAL SUBMISSIONS MUST COMPLY WITH ALL SHIPYARD ELECTRICAL WELDING EQUIPMENT REQURIEMENTS WITHOUT EQUIPMENT MODIFICATION
28. ANY EQUAL SUBMISSIONS EQUIPMENT MUST BE ABLE TO BE PUT INTO SERVICE WITHOUT REQUIRING NEW TRAINING FOR OPERATORS OR ALTERATIONS OF EXISTING

WELDING PROCESS INSTRUCTIONS OR REQUIRING ADDITIONAL EQUIPMENT QUALIFICATION TESTING

29. ALL OFFERS MUST BE REVIEWED FOR COMPATATILITY PRIOR TO AWARD BY S/26, S/31M, C/138 WELD ENGINEERS AND C/106 PRIOR TO AWARD
30. ANY EQUAL SUBMISSIONS MAY REQUIRE PSNS ONSITE DEMONSTRATION AND EVALUATION AT VENDORS EXPENSE PRIOR TO AWARD